AMENDMENTS TO THE CLAIMS

The following listing of claims replaces all previous claim listings and versions:

Claims 1-10. (Cancelled)

11. (Currently Amended) A fluorescent single- or multi-layer optical disc for storing information, the disc comprising at least one information layer, said at least one information layer comprising:

a transparent film substrate;

a fluorescent composition covering the transparent film substrate and comprising a fluorescent dye, a film-forming polymer, a plasticizer, a surfactant and a light stabilizer; and a primer layer placed between the substrate and the fluorescent composition;

wherein at least one of the substrate, the fluorescent composition and the primer layer comprises a material providing effective adhesion of the fluorescent composition to the substrate or the primer layer so as to prevent formation on an inter-layer boundary of non-fluorescent poly-molecular associates of fluorescent dyes causing quenching of fluorescence, and

wherein the dye is present in an amount of 0.1 weight percent to 10 weight percent of the fluorescent composition.

- 12. (Previously Presented) The disc of claim 11, wherein the primer comprises a substance selected from the group consisting of liquid silica glass, polyvinyl alcohol, thermosetting resins, polyorganosiloxanes and latexes.
- 13. (Previously Presented) The disc of claim 11, wherein the substrate comprises a substance selected from the group consisting of polyvinyl chloride and its co-polymers.
- 14. (Previously Presented) The disc of claim 11, wherein the film-forming polymer comprises a substance selected from the group consisting of polyvinyl chloride and its co-polymers, chlorinated polyvinyl chloride and nitrocellulose.

- 15. (Previously Presented) The disc of claim 11, wherein the surfactant comprises a substance selected from the group consisting of butyl glycol, propylene glycol, dimethyl glycol and diethyl glycol.
- 16. (Previously Presented) The disc of claim 11, wherein the disc is a multi-layer disc having a plurality of said information layers.
- 17. (Currently Amended) A method of increasing a fluorescent signal level from a fluorescent single- or multi-layer optical disc for storing information, the disc comprising at least one information layer, said method comprising:
 - (a) forming said at least one information layer from: a transparent film substrate;
- a fluorescent composition covering the transparent film substrate and comprising a fluorescent dye, a film-forming polymer, a plasticizer, a surfactant and a light stabilizer; and

a primer layer placed between the substrate and the fluorescent composition; wherein at least one of the substrate, the fluorescent composition and the primer layer comprises a material providing effective adhesion of the fluorescent composition to the substrate or the primer layer so as to prevent formation on an inter-layer boundary of non-fluorescent poly-molecular associates of fluorescent dyes causing quenching of fluorescence, and

wherein the dye is present in an amount of 0.1 weight percent to 10 weight percent of the fluorescent composition; and

- (b) heating said at least one information layer at 100-120° to a temperature sufficient to improve adhesion of the fluorescent composition to the substrate or primer layer.
- 18. (Previously Presented) The method of claim 17, wherein step (a) comprises providing a plurality of said information layers such that the disc is a multi-layer disc.
- 19. (New) The method of claim 17, wherein step (b) comprises heating said information layer to a temperature of 100°C to 120°C.
- 20. (New) The disc of claim 11, wherein the plasticizer is present in an amount of 10 weight percent to 50 weight percent of the fluorescent composition.

21. (New) A fluorescent single- or multi-layer optical disc for storing information, the disc comprising at least one information layer, said at least one information layer comprising:

a transparent film substrate;

a fluorescent composition covering the transparent film substrate and comprising a fluorescent dye, a film-forming polymer, a plasticizer, a surfactant and a light stabilizer; and a primer layer placed between the substrate and the fluorescent composition;

wherein at least one of the substrate, the fluorescent composition and the primer layer comprises a material providing effective adhesion of the fluorescent composition to the substrate or the primer layer so as to prevent formation on an inter-layer boundary of non-fluorescent poly-molecular associates of fluorescent dyes causing quenching of fluorescence, and

wherein the dye is present in an amount sufficient to provide a transmittance through the information layer of about 92% to about 96%.

22. (New) The disc of claim 21, wherein the primer comprises a substance selected from the group consisting of liquid silica glass, polyvinyl alcohol, thermosetting resins, polyorganosiloxanes and latexes.